

LISTING OF CLAIMS

1. (Original) A method of managing a telecommunications network, comprising:
receiving a threshold expression from a user through a user interface; and
implementing the threshold expression within a network device while the network device is operational.
2. (Original) The method of claim 1, wherein receiving a threshold expression comprises:
receiving a user selection of an existing threshold expression.
3. (Original) The method of claim 1, wherein receiving a threshold expression comprises:
receiving a new threshold expression from the user.
4. (Original) The method of claim 1, where the threshold expression includes a plurality of cascaded threshold expressions.
5. (Original) The method of claim 1, wherein prior to receiving a threshold expression, the method further comprises:
receiving a resource selection from the user through the user interface; and
displaying a threshold dialog box, wherein the threshold expression is received through the threshold dialog box.
6. (Original) The method of claim 5, further comprising:
displaying a plurality of existing threshold expressions to the user through the threshold dialog box.
7. (Original) The method of claim 5, further comprising:
displaying a default threshold expression to the user through the threshold dialog box.
8. (Currently Amended) The A method of claim 5, managing a telecommunications network, comprising:
receiving a resource selection from a user through a user interface, comprising:
displaying a threshold dialog box to the user,
receiving a threshold expression from the user through the threshold dialog box,

implementing the threshold expression within a network device while the network device is operational,

wherein implementing the threshold expression within a network device while the network device is operational comprises:

writing data from the threshold dialog box into at least one table in a configuration database within the network device; and

updating thresholding code executing within the network device with the data written into the at least one table.

9. (Original) The method of claim 8, wherein writing data from the threshold dialog box into at least one table in a configuration database within the network device comprises:

sending the data from the threshold dialog box through a network management system (NMS) client to an NMS server; and

writing the data into the at least one table through the NMS server.

10. (Original) The method of claim 8, wherein updating thresholding code executing within the network device with the data written into the at least one table comprises:

sending an active query notice to each application including the thresholding code and corresponding to the selected resource.

11. (Original) A method of managing a telecommunications network, comprising:

receiving a new threshold expression from a user through a user interface; and

implementing the new threshold expression within a network device while the network device is operational.

12. (Original) A method of managing a telecommunications network, comprising:

displaying a plurality of existing threshold expressions through a user interface;

receiving a user selection of one of the existing threshold expressions; and

implementing the selected existing threshold expression within a network device while the network device is operational.

13. (Original) A method of managing a telecommunications network, comprising:

implementing a plurality of cascaded threshold expressions within a network device.

14. (Original) A method of managing a telecommunications network, comprising:
 - assigning a unique identifier to each of a plurality of resources in a network device;
 - receiving a resource selection from a user through a user interface; and
 - establishing a threshold evaluation for the selected resource using the unique identifier assigned to the selected resource.
15. (Original) The method of claim 14, wherein receiving a resource selection from a user through a user interface comprises:
 - receiving a resource selection and a resource attribute selection from the user through a threshold dialog box.
16. (Original) The method of claim 14, wherein the threshold evaluation is established within the network device and while the network device is operational.
17. (Original) The method of claim 15, wherein establishing a threshold evaluation for the selected resource using the unique identifier assigned to the selected resource comprises:
 - receiving a threshold expression from the user through the threshold dialog box;
 - writing data, including the unique identifier assigned to the selected resource and the threshold expression, from the threshold dialog box into at least one table in a configuration database within the network device; and
 - updating thresholding code executing within the network device with the data written into the at least one table.
18. (Original) The method of claim 17, wherein receiving a threshold expression from the user through the threshold dialog box comprises:
 - receiving a user selection of an existing threshold expression.
19. (Original) The method of claim 17, wherein receiving a threshold expression from the user through the threshold dialog box comprises:
 - receiving a new threshold expression from the user.
20. (Original) The method of claim 17, wherein writing data from the threshold dialog box into at least one table in a configuration database within the network device comprises:

sending the data from the threshold dialog box through a network management system (NMS) client to an NMS server; and
writing the data into the at least one table through the NMS server.

21. (Original) The method of claim 17, wherein updating thresholding code executing within the network device with the data written into the at least one table comprises:

sending an active query notice to each application including the thresholding code and corresponding to the selected resource.

22. (Currently Amended) A method of managing a telecommunications network, comprising:
modifying one or more threshold expressions within a network device while the network device is operational;

detecting a threshold event in an application within a network device in accordance with said modified threshold expressions;

notifying thresholding code of the threshold event; and

responding to the threshold event in accordance with an action defined within the thresholding code.

23. (Original) The method of claim 22, wherein detecting a threshold event in an application within a network device comprises:

monitoring a resource attribute continuously; and

comparing the resource attribute against a threshold expression provided to the application by the thresholding code.

24. (Original) The method of claim 22, wherein responding to the threshold event in accordance with an action defined within the thresholding code comprises:

notifying a network manager of the threshold event.

25. (Original) The method of claim 24, wherein notifying a network manager of the threshold event comprises:

sending a notice to network management system software external to the network device.

26. (Original) The method of claim 24, wherein notifying a network manager of the threshold event comprises:

sending an electronic mail message to the network manager.

27. (Original) The method of claim 24, wherein notifying a network manager of the threshold event comprises:

sending a page to the network manager.

28. (Original) The method of claim 22, wherein responding to the threshold event in accordance with an action defined within the thresholding code comprises:

logging the threshold event.

29. (New) A method of monitoring one or more attributes associated with an application executing on a network device, comprising:

storing one or more threshold expressions defining threshold events for said attributes within a configuration database;

linking the application to a threshold monitoring library (TML), said TML causing the application to retrieve said threshold expressions from the configuration database; and

establishing one or more active queries between said configuration database and at least one of said TML and said applications for providing notifications of changes to said threshold expressions.

30. (New) The method of claim 29, further comprising:

causing the TML to poll the application to retrieve values of selected attributes of said application defined for monitoring by one or more of said threshold expressions.

31. (New) The method of claim 30, further comprising:

notifying an SNMP agent if one or more of said retrieved attribute values indicates occurrence of a threshold event.